SUPPORT FOR THE AMENDMENT

This Amendment cancels Claims 17 and 23; and amends Claim 16; and adds new Claims 28-32. Support for the amendments is found in the specification and claims as originally filed. In particular, support for Claim 16 is found in canceled Claims 17 and 23, and in the specification at least at page 12, line 21 ("an alkali metal was less than 1 ppm"). Support for new Claim 28 is found in original Claim 12 and in the specification at page 10, line 22 to page 11, line 11 ([0034] of US 2004/0112274A1) and page 5, line 21 to page 6, line 12 ([0024] of US 2004/0112274A1). Support for new Claim 29 is found in original Claim 2. Support for new Claims 30-31 is found in the specification at least at page 4, lines 19-22. Support for new Claim 32 is found in the specification at least at page 4, line 24 to page 5, line 3. No new matter would be introduced by entry of these amendments.

Upon entry of these amendments, Claims 16, 18-22 and 24-32 will be pending in this application. Claims 16 and 28 are independent. Claims 24-26 are withdrawn from consideration pursuant to a Restriction Requirement.

REQUEST FOR RECONSIDERATION

Applicants respectfully request entry of the foregoing and reexamination and reconsideration of the application, as amended, in light of the remarks that follow.

Applicants thank the Examiner for the courtesies extended to their representative during the personal interview on January 25, 2007.

As discussed at the personal interview, conventional silica glass crucibles have a tendency to deform at the high temperatures required for pulling silicon single crystals from the crucibles. Specification at page 1, line 23.

To reduce the deformation, the present invention provides a reinforced silica substance (e.g., crucible) where a porous layer comprising crystalline quartz and in a ring

configuration serves to reinforce a silica glass substance comprising silica glass. The layer comprising crystalline quartz includes less than 1 ppm of an alkali metal. As a result, a crucible of the reinforced silica substance can be used to pull silicon single crystals without contaminating the silicon single crystals with the alkali metal.

Claims 16-18, 20-21, 23 and 27 are rejected under 35 U.S.C. §102(b) over U.S. Patent No. 6,136,092 ("Sato").

Claims 16-18, 20-23 and 27 are rejected under 35 U.S.C. §102(b) over JP 10-203893 ("Abe").

Claim 19 is rejected under 35 U.S.C. §103(a) over <u>Sato</u> or <u>Abe</u> and further in view of U.S. Patent No. 5,389,582 ("<u>Loxley-582</u>").

Claim 22 is rejected under 35 U.S.C. §103(a) over Sato in view of Abe.

Sato discloses quartz crucibles that can contain quartz glass that is transparent (i.e., having a relatively low bubble content) and quartz glass that is opaque (i.e., having a high content of minute bubbles). Sato at title; abstract; column 1, lines 35-39. Sato discloses the formation of a transparent silica glass inner layer having a very small bubble content. Sato at column 6, lines 1-15.

The Office Action at page 4, section 7, line 10, asserts that "[t]he bubble in the inner layer reads on applicant's porous".

On the contrary, a bubble does not make a material porous. A "bubble" can be defined as "a pocket formed in a solid by trapped air or gas, as during cooling". The American Heritage College Dictionary, 3d edition, page 181 (copy attached). In contrast, the term "porous" can be defined as "admitting the passage of gas or liquid through pores or interstices". Id., at 1065 (copy attached. The term "pores" can be defined as "a space in rock, soil, or unconsolidated sediment that is not occupied by mineral mater and allows the passage or absorption of fluids". Id., at 1064 (copy attached). Because a bubble does not

allow the passage of gas or liquid through a material, while a pore does, <u>Sato</u>'s bubble does not read on the independent Claim 16 limitation "porous".

Because <u>Sato</u> fails to suggest the independent Claim 16 limitation "porous", the rejection over <u>Sato</u> should be withdrawn.

Abe discloses a quartz glass crucible that can include a crystallized glass layer. The Office Action at page 5, section 8, line 9, asserts "Abe et al discloses a discontinuous crystallized layer (Fig 5)". Fig. 5 of Abe discloses separated strips of crystallized glass layer 12 running vertically on quartz glass crucible 10.

However, <u>Abe</u> fails to suggest the independent Claim 16 limitation of "a *porous* layer comprising crystalline quartz and in a *ring configuration* on the silica glass substance". Thus, the rejection over <u>Abe</u> should be withdrawn.

<u>Loxley-582</u> fails to remedy the deficiencies of <u>Sato</u> and <u>Abe</u>. The Office Action at page 6, section 10, lines 6-8, cites <u>Loxley-582</u> for disclosing a particle size of silica powder.

Because the cited prior art fails to suggest the independent Claim 16 limitations of a "reinforced silica substance comprising a silica glass substance comprising silica glass; and a porous layer comprising crystalline quartz and in a ring configuration on the silica glass substance", the prior art rejections should be withdrawn.

New Claims 28-32 are also patentably distinguishable over the cited prior art. Sato and Abe fail to suggest the structural reinforcement feature implied by the independent Claim 28 limitations of "heating and sintering the silica glass powder layer at a temperature less than the crystallization temperature of the silica glass powder layer, ... wherein the silica glass powder layer is crystallized to reinforce the silica glass crucible by heating under the high temperature at the melting of the silicon raw material being charged into the crucible".

Claim 16 is rejected under 35 U.S.C. § 112, first paragraph, as failing to comply with the written description requirement because Claim 16 recites "a silica glass substance

comprising amorphous silica" and assertedly there is no support in the original disclosure for amorphous silica. To obviate the rejection, Claim 16 is amended to recite --a silica glass substance comprising silica glass--.

Claim 16 is rejected under 35 U.S.C. § 112, first paragraph, as failing to comply with the written description requirement because assertedly there is no support for the recitation "where the layer comprising crystalline quartz does not include a crystallization promoter". Applicants thank the Examiner for the indication at page 3, section 5, lines 10-11, that "there is ... support for a quartz layer which includes less than 1 ppm of a promoter". Claim 16 is amended to recite "where the layer comprising crystalline quartz does not include a erystallization promoter includes less than 1 ppm of an alkali metal". Because the specification as originally filed supports independent Claim16, the rejection under 35 U.S.C. § 112, first paragraph, should be withdrawn.

Pursuant to M.P.E.P. §821.04, after independent Claim 16 is allowed, Applicants respectfully request examination and allowance of method Claims 24-26, which include all the limitations of independent Claim 16.

In view of the foregoing amendments and remarks, Applicants respectfully submit that the application is in condition for allowance. Applicants respectfully request favorable consideration and prompt allowance of the application.

Application No. 10/673,180 Reply to Office Action of October 17, 2006

Should the Examiner believe that anything further is necessary in order to place the application in even better condition for allowance, the Examiner is invited to contact Applicants' undersigned attorney at the telephone number listed below.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C. Norman F. Oblon

Corwin P. Umbach, Ph.D. Registration No. 40,211

Attached:

American Heritage College Dictionary, 3d edition, pages 181, 1064, 1065

Customer Number 22850

Tel: (703) 413-3000 Fax: (703) 413 -2220 (OSMMN 06/04)

CPU/rac

runtured blood vessels to plant tissue, often 3. An injury, esp. to vsan, to crush, and <

ruits. To spread news ic. An abnormal sound A rumor. b. A din; a d VLat. *bragere.] A member of a Native division of the Teton th Dakota. [Fr. brûlé, ne).l

or occurring in winter. evima (dies), the shortort. See mregh-u-*.] OFr., perh. < Prov. bru/ mous (broo/ mas)

eap and showy; mere-England (< 17th-cent. m'ma•gem n. n. "Beau Brummell."

larized new men's fash-

ren late in the morning st and an early lunch.

V Borneo on the South Great Britain in 1984. ppo. 1377-1446. ltal-

during the Florentine

complexion or coloring, or eyes. -n. A person one at brunette. [Fr. < orig. See bher- 2* .] k or brown hair. -n. A air. [Fr., fem. of brunet.

iefly in reference to hair ie form brunette to refer : frequently used variant and mixed groups. It is ed into service as a net rarely applied to men, pically described simply nd. - ette.

.t. and p.part. of bring. the Nibelungenlied who

- 1600. Italian philosoy of an infinite universe. 10302-1101. German Chartreuse in S France order.

in and former duchy of 13th cent. 2. A city of ver; founded 861. Pop. Savannah. Pop. 16,433. leveland. Pop. 28,230. contains chicken and rabck, a county of S VA.] or force, as of an attack.

Scand. orig.]
isting of bristles fastened
polishing, or painting,
light touch in passing; a contact between a fixed snub; a brushoff. r. 1.a. To clean, polish, or ith or as if with motions f with motions of a brush. rushed the matter aside. against. - intr. 1. To use something so as to touch

1. To refresh one's mem-

he < OFr. brosses, brushhe in — brush-y adj.
wth of bushes or shrubs.

Cut or broken branchshwood < VLat. *bruscia, naple.] - brush'y adj. le or alarming encounter: t, to hasten, rush, prob. <

relatively slow crackling

brushed (brusht) adj. Having a nap produced by brushing. brush fire also brush fire (brush'fir') n. 1. A fire in low-growing scrubby trees and brush. 2. A relatively minor crisis. brush-off also brush-off (brush'of', -of') n. An abrupt dis--missal or snub.

brush · wood (brush' wood') n. 1. Branches that have been cut or broken off. 2.a. Dense undergrowth. b. An area covered by

such growth.

brush: work (brush/wurk') n. 1. Work done with a brush. 2. The manner in which a painter applies paint with a brush-brusque also brusk (brüsk) adj. Abrupt and curt in manner or appech; discourteously blunt. [Fr., lively, fierce < Ital. brusco, coarse, rough < LLat. brüscum, perh. blend of Lat. rüscus, brutcher's broom, and LLat. brücus, heather; see BRIAR¹.]

brusque*ly adv. — brusque*ness n.

brusque*le (brüs/k--rē/) n. Curtness or bluntness of man-

ther. [Fr. < brusque, brusque. See Brusque.]

Brus-sels (brus'slz). The cap. of Belgium, in the central part;

gofficially bilingual (Flemish and French). Met. area pop. officially \2.395,000.

firussels carpet n. A machine-made carpet consisting of small, culored woolen loops that form a heavy patterned pile.

frussels lace n. Net lace with an appliqué design, formerly

Prussels lace n. Net lace with an appliqué design, formerly finade by hand but now usu. made by machine.

Brussels sprouts pl.n. (used with a sing. or pl. v.) 1. A vegactable (Brassica oleracea var. gemmifera) in the mustard family, having cabbagelike buds. 2. The edible buds of this plant. brut. (broot) adj. Very dry. Used of champagne. [Fr. < OFr., frough. < Lat. bratus, heavy. See gwere-1*.]

brutal (broot'l) adj. 1. Extremely ruthless or cruel. 2. Crude ov. unfeeling in manner or speech. 3. Harsh, unrelenting. 4. Disagreeably precise or penetrating. — bru'tal*ly adv. bru*tal*lsm (broot'l-iz/am) n. A style of architecture scharacterized by massive or monolithic forms typically unrelieved by exterior decoration. — bru'tal*ist n. bru*tal*i*ty (brootal/i-ic) n., pl. tles. 1. The state or quality sof being ruthless, cruel, harsh, or unrelenting. 2. A ruthless, ercuel, harsh, or unrelenting act.

pru tal · 1 · ty (broo -tal / i-te) n., pl. · ties. 1. The state or quality for being ruthless, cruel, harsh, or unrelenting act.
bru · tal · lze (broo · l · lz · lz · lz · lng. · lz · es. 1. To make cruel, harsh, or unrelenting act.
bru · tal · lze (broo · l · lz · lz · lz · lng. · lz · es. 1. To make cruel, harsh, or unfeeling. 2. To treat cruelly or harshly.
brute (broo · ln. 1. An animal; a beast. 2. A brutal, crude, or insensitive person. — adj. 1. Of or relating to beasts; animal.
2. · Characteristic of a brute, esp.: a. Entirely physical.
b. · Lacking or showing a lack of reason or intelligence. c. Savenge; cruel: brute coercion. d. Unremittingly severe: brute necessity. 3. Coarse; brutish. {< ME, nonhuman < OFr. brut < · Lat. brūtus, stupid. See g · era · · · ·] — brut · Ism n.
brut · Ish (broo · tish) adj. 1. Of or characteristic of a brute.
2. Crude in feeling or manner. 3. Sensual; carnal. 4. Rough; uncivilized. — brut · Ish · y adv. — brut · Ish · ness n.
brut · tu m (broo · tas), Marcus · Junius. 85? — 42 s.c. Roman politician and general who conspired to assassinate Julius Caesar.
brux · ism (brūk · siz · am) n. The habitual, involuntary grinding or clenching of the teeth, usu. during sleep, as from tension.

[NLat. brūxis, a gnashing < Gk. brūkein, to gnash.]
bry an (brī · an). A city of E-central TX NW of Houston. Pop. 155.002.

Bryan, William Jennings. "the Great Commoner." 1860—

535,002. Bryan., William Jennings. "the Great Commoner." 1860—1925. Amer. lawyer and politician famous for his "Cross of Glods". speech (1896). Bry-ansk also Bri-ansk (brē-ānsk /). A city of W Russia SW of Moscow; part of Lithuania until the 16th cent. Pop. 430,000. Bryant (bri-ant), William Cullen. 1794—1878. Amer. poet, "Gritic, and editor known esp. for "Thanatopsis" (1817). Bryce (bris), James. 1838—1922. British diplomat and histo-willow where American Commonwealth (1888).

Grian who wrote American Commonwealth (1888).

Bryn-hild (brin-hild') n. A Valkyrie who is revived from an expendent sleep by Sigurd.

bryo-pref. Moss: bryology. [NLat. < Gk. bruon, moss <

fuherous roots formerly used as medicine. 2. The black bern-drighterous roots formerly used as medicine. 2. The black bry-driven by the companient of the Bryophyta, a divi-sion of photosynthetic, chiefly terrestrial nonvascular plants, licluding the mosses. — bry'o-phyt'le (-fit'ik) adj. by:0-zo-an (bri'a-zō'an) n. Any of various small aquatic an-

imals of the phylum Bryozoa that reproduce by budding and form colonies attached to stones or seaweed. [< NLat. Bryozoa; phylum name: BRYO- + Gk. zôia, pl. of zōion, animal;

**reiv-zoon.] - bry'o-zo'an adj.

bry'th on (brith' an, -ōn') n. 1. An ancient Celtic Briton of Cornwall, Wales, or Cumbria. 2. One who speaks a Brittonic language. [Welsh < Lat. Brittonēs, Britons. See Βεπτοκ.]

bry'thon ic (bri-thōn'ik) adj. Of or relating to the Brythons

or their language or culture. -n. Var. of Brittonic B.S. abbr. 1. Bachelor of Science. 2. Balance sheet. 3. Bill of sale. 4. Obscene. Bullshit.

BSA abbr. Boy Scouts of America. B.Sc. abbr. Bachelor of Science.

B.S.Ed. abbr. Bachelor of Science in Education.

bsh. abbr. Bushel.

abbr. British Standards Institution.

B-side (be'sid') n. The reverse side of a phonograph record, esp. a single. [From the B on the record's label.] bsk. abbr. Basket.

Bt. abbr. Baronet

B.T. abbr. Bachelor of Theology.

B.Th. abbr. Bachelor of Theology. btry. abbr. Battery.

abbr. Baronetess.

Btu abbr. British thermal unit.

bu. abbr. 1. Bureau. 2. Or bu Bushel. bub (bub) n. Slang. Fellow. Used as a term of familiar address for a man or boy. [Prob. short for BROTHER.]
Bu-bas-tis (byoo-bas-tis). An ancient city of NE Egypt

bub-ble (būb'a) n. 1. A thin, usu. spherical or hemispherical film of liquid filled with air or gas. 2. A globular body of air or gas formed within a liquid. 3. A pocket formed in a solid by trapped air or gas, as during cooling. 4.a. The act or process of forming bubbles. b. A sound made by or as if by the forming and bursting of bubbles. 5. Something insubstantial, groundless, or ephemeral, esp.: a. A fantastic or impracticable idea or belief; an illusion. b. A speculative scheme that comes idea or beliet; an illusion. b. A speculative scheme that comes to nothing. 6. Something light or effervescent. 7. A usu. transparent glass or plastic dome. 8. A protective, often isolating envelope or cover. -v. -bled, -bling, -bles. -intr. 1. To form or give off bubbles. 2. To move or flow with a gurgling sound. 3. To rise to or as if to the surface; emerge. 4. To display irrepressible activity or emotion. -tr. To cause to form bubbles. [< ME bubblen, to bubble.] wubble and squaek w. Chiefly British. Cabbane and potatoes.

form bubbles. [< ME bubelen, to bubble.] bubble and squeak n. Chiefly British. Cabbage and potatoes fried together. [Imit. of the sounds made as it cooks.] bubble bath n. 1. A perfumed preparation added to bath water to make it foam. 2. A bath containing such a preparation. bubble chamber n. An apparatus in which the movement and collision of ionizing particles is seen as trails of gas bubbles that form as the particles move through a superheated liquid. bubble gum n. Chewing gum that can be blown into bubbles. bubble memory n. Comp. Sci. A memory in which binary digits are represented by the alignment of magnetic bubbles. bub bler (bub lar) n. Northern U.S. A drinking fountain.

bubble top n. A transparent, often bulletproof enclosure forming the top of an automobile.

bub-bly (būb/lė) adi. 1. Full of or producing bubbles. 2. Resembling bubbles. 3. Full of high spirits; effervescent. -n., pl. -biles. Informal. Champagne. pl. -biles. Informal. Champagne. Bu • ber (boo'bər), Martin. 1878 – 1965. Austrian-born Judaic

scholar and philosopher who wrote *l* and *Thou* (1923). bu bo (bō²/bō, byō²/-) n., pl. boes. An inflamed tender swelling of a lymph node, esp. of the armpit or groin, that is characteristic of certain infections such as plague. [ME < LLat. bubō. bubōn- < Gk. boubōn.)

bu · bon · ic plague (boo · bon · ik, byoo -) n. A contagious, often fatal epidemic disease caused by the bacterium Yersinia pestis, transmitted from person to person or by the bite of fleas from an infected host, esp. a rat, and characterized by chills, fever, vomiting, diarrhea, and the formation of buboes. bu•bon•o•cele (boo-bon•o-sel', byoo-) n. A partial hernia of

the groin, characterized by swelling in the groin area. [Gk. boubonokēlē: boubon, groin + kēlē, rupture.]

Bu•ca•ra•man•ga (boo'kə-rə-mäng'gə, -kä-rä-mäng'gä). A city of N-central Colombia in the Cordillera Oriental of the

city of N-central Colombia in the Cordinera Oriental of the Andes; founded 1622. Pop. 342,169. buc-cal (būk'a) adj. Of or relating to the cheeks or the mouth

buc •cal (būk /a) adj. Of or relating to the cheeks of the mouth cavity. [< Lat. bucca, cheek.]
buc •ca•neer (būk /a-nīr/) n. 1. A pirate, esp. one who preyed on Spanish shipping in the West Indies during the 17th century. 2. A ruthless speculator or adventurer. [Fr. boucanier < boucaner, to cure meat < boucan, barbecue frame, poss. of Arawakan orig. or < Tupinamba (a Tupian language) bocan, rack.] — buc/ca•neer/ v.

Bu·ceph·a·lus (byoo-sef/a-las) n. Alexander the Great's war

Buch an (buk'on, bukh'-), Sir John. 1st Baron Tweedsmuir.

Buch-an (būk'π, būκη'-), bir John. Ist Baron Iweedsmuir.

1875-1940. Scotrish writer and politician whose adventure
novels include The Thirty-Nine Steps (1915).

Bu•chan•an (byŏo-kān'an, ba-), James. 1791-1868. The

15th President of the U.S. (1877-61).

Bu•cha•rest (bōo'ka-rēst', byŏo'-). The cap. of Romania, in
the SE part on a tributary of the Danube R.; founded in the

14th cent. Pop. 1,995,156.

Bu•chen•wald (bōo'kan-wôld', -кнаn-vält'). A village of cen-

tral Germany near Weimar; site of a Nazi concentration camp during World War II. Buch • ner (book / nər, booкн / -), Eduard. 1860 – 1917. German

chemist who won a 1907 Nobel Prize.

brushed Buchner



Brassica oleracea var, gemmifera



James Buchanan

oi boy ă pat ou **oú**t oo t**oo**k ā pay âr care ão bãot ŭ cut č pet ûr urge th thin ĭ plt th this îr pier ŏ pot ŏ toe zh vision about, ô paw item

Stress marks: (primary); (secondary), as in dictionary (dĭk 'shə-něr 'ē) 1064

pop3

pore fungus



pop art Campbell's Soup, 19 by Andy Warhol. Oil silk screened on canvas, 361/s" × 24". The Museum of Modern Art, New York. Philip lobnson Fund.



poppy Prickly poppy



porcupine Atrican porcupine Hystrix cristata

pop³ (pŏp) Informal. — adj. 1. Of or for the general public; popular or popularized: pop culture. 2. Of, relating to, or specializing in popular music: a pop singer. 3. Of or suggestive of pop art: a pop style. — n. 1. Popular music. 2. Pop art. POP abbr. Proof of purchase.

pop. abbr. 1. Popular. 2. Population.

pop. avor. 1. ropular. c. ropulation.
pop art n. A form of art that depicts everyday life and employs
techniques of commercial art and popular illustration.
pop corn (pop kôrn') n. 1.a. A variety of corn, Zea mays
everta, having hard kernels that burst to form white, irregularly shaped puffs when heated. b. The edible popped kernels of this variety of corn. 2. A small piece, as of polystyrene, used in quantity to protect items in shipping. [Contraction of

used in quantity to protect items in shipping. (Contraction of popped corn.)

pope (pop) n. 1. Often Pope. Rom. Cath. Ch. The bishop of Rome and head of the Roman Catholic Church on earth.

2. Eastern Orthodox Ch. The patriarch of Alexandria. 3. The Coptic patriarch of Alexandria. 4. A person considered to have unquestioned authority. [ME < OE pāpa < LLat. < Lat., father (title of bishops) < Gk. pappas. See papa*.]

Pope, Alexander. 1688-1744. English poet whose works include The Dunciad (1728).

Pope. John. 1822-92. Amer. Union general who was defeated

Pope, Alexander. 1688–1744. English poet whose works include The Dunciad (1728).

Pope, John. 1822–92. Amer. Union general who was defeated at the Second Battle of Bull Run (1862).

pop•er•y (pō¹pə-rē) n. Offensive. The doctrines, practices, and rituals of the Roman Catholic Church.

pope's nose (pōps) n. Informal. The tail of a cooked fowl. pop•eyed (pōp¹id¹) adi. 1. Having bulging eyes. 2. Amazed; astonished: popeyed with wonder.

pop fly n. Baseball. A short high fly ball.

pop•gun (pōp¹gin¹) n. A toy gun that makes a popping noise.

pop•lin•jay (pōp¹in-ja²) n. A vain talkative person. [ME, parrot < Ofr. papegai < Sp. papagayo or Ofrov. papagai, both < Ar. babga², babga² < Pers. babbagbā.]

pop•lsh (pō²pish) adj. Offensive. Of or relating to the Roman Catholic Church. — pop¹sh•ly adv. — pop¹sh•ness n.

pop•lar (pōp²lar) n. 1.a. Any of several fast-growing deciduous trees of the genus Populus, having unisexual flowers borne in catkins. b. The wood of these trees. 2. See tulip tree. [ME popler < Ofr. poplier < pouple < Lat. pōpulus.]

Pop•lar Bluff (pōp²lar). A city of SE MO near the AR border S of St. Louis. Pop. 16,996.

pop•lin (pōp²lin) n. A ribbed fabric of silk, rayon, wool, or cotton, used in making clothing and upholstery. [Obsolete Fr. popular ersh. & Prov. patalino, fem. of patalin, paral.]

op in (pop in) n. A ribbed rabric of silk, rayon, wool, of cotton, used in making clothing and upholstery. [Obsolete Fr. papeline, perh. < Prov. papalino, fem. of papalin, papal (so called because it was first made at the papal town of Avignon)

called because it was first made at the papal town of Avignon) < Med.Lat. pāpālis < LLat. pāpa, pope. See Pope.]
pop•lite-al (pōpˈli-te-al) pōpˈli-te-al) dop'li-te-al) dop'li-te-al) dop'li-te-al) dop'li-te-al) adi. Of or relating to the hollow part of the leg behind the knee joint. [< NLat. poplites < Lat. poples, poplit-, ham of the knee.]
Po-po-c-te-petl (pō'pɔ-kāt'-ɔ-pēt'l, pō'pō-kā-te'pēt'l). A volcano, 5,455.5 m (17,887 ft), of Mexico W of Puebla. pop-o-ver (pōp'ō'vər) n. A very light hollow muffin made with eggs, milk, and flour. pop-pa (pā'pɔ) n. Var. of papa. pop-per (pōp'ar) n. 1. One that pops. 2. A container or pan for making popcorn. 3. Slang. An ampoule of amyl nitrite or butyl nitrite used as a stimulant drug. pop-pet (pōp'ft) n. 1. A poppet valve. 2. Naut. a. A small

popypet (pöp'lt) n. 1. A poppet valve. 2. Naut. a. A small wooden strip on a gunwale that forms or supports an oarlock. b. One of the beams of a launching cradle supporting a ship's hull. 3. Chiefly British. A darling. [ME popet, small child, doll numer. See "poper.]

hull. 3. Chiefly British. A darling. [ME popet, small child, doll, puppet. See Pupper.]
poppet valve n. An intake or exhaust valve, operated by springs and cams, that opens and closes by axial motion.
pop-ple¹ (pŏp²al) intr.v. -pled, -pllng, -ples. To move in a tossing, bubbling, or rippling manner, as choppy water. — n.
1. Choppy water. 2. The motion or sound of boiling liquid.
[ME poplen, prob. of MDu. orig.]
pop-ple² (pŏp²al) n. Informal. A poplar. [ME popel (perh. < OE popul.) < Lat. pōpulus.]
pop-py (pŏp²ā) m., pl. -ples. 1. Any of numerous plants of the genus Papaver, having nodding buds with four crumpled perals, showy red, orange, or white flowers, a milky juice, and capsules that dehisce through terminal pores. 2. Any of several similar or related plants, such as the California poppy.
3. An extract from poppy seedpods, used in medicine and narcotics. 4. Color. A vivid red to reddish orange. [ME popi < OE popig, prob. alteration of VLat. *papāvum, alteration of Lat. papāvum.]

or Lat. papaver.]
pop·py cock (ρδρ/ε-kök') n. Senseless talk; nonsense. [Du.
dial. pappekak: pap, pap (< MDu. pappe, perh. < Lat. pappa, food) + kak, dung (< kakken, to defecate < MDu. kacken < Lat. cacare; see Kakka-*).]
Pop·si·cle (ρδρ/si-kal, -sik'al). A trademark used for a colored, flavored ice confection with one or two flat sticks for a

pop-top (pop'top') adj. Having a tab that can be pulled up or

off to make an opening in a container. — pop-top' n.
pop-u-lace (pop'ya-lis) n. 1. The general public; the masses.
2. A population. [Fr. < Ital. popolaccio, rabble < popolo, the people < Lat. populus. See POPULAR.]

pop·u·lar (pŏp/yɔ-lər) adj. 1. Widely liked or appreciated.

2. Liked by acquaintances; sought after for company. 3. Of, representing, or carried on by the people at large. 4. Fit for, adapted to, or reflecting the taste of the people at large. 5. Accepted by or prevalent among the people in general. 6. Suited to or within the means of ordinary people. 7. Originating among the people: popular legend. [ME populer < OFr. popular | Lar. populæric of the people | 2 papulus. the people

among the people: popular legena. (M.E. popular - Crt., popular - Cat., popular is, of the people - populus, the people, of Etruscan orig.] — pop'u-lar-ly adv.

popular front n. A political coalition of leftist parties against fascism, such as that in European countries during the 1930's.

pop-u-lar-l-ty (pop'y-lar'l-te) n. The quality or state of being popular, esp. of being widely admired or sought after.

pop·u·lar·lze (pop/yo-la-rīz') tr.v. -ized, -iz·lng, -iz·es.

1. To make popular: popularized the hairstyle. 2. To present 1. To make popular: popularized the hairstyle. 2. To present in a widely understandable or acceptable form. — pop'u-lar-li-za'tshon) n. — pop'u-lar-lz'er n. pop-u-late (pōp'y-lāt') ir.v. -lat-ed. -lat-lng. -lates. 1. To supply with inhabitants. as by colonization and the late.

op•u•late (ρŏp/yɔ-lāt') ir.v. -lat•ed. -lat•ing. -lates. 1. To supply with inhabitants, as by colonization; people. 2. To live in; inhabit: creatures that populate the ocean. [Med.Lat. po-qpulāre, populāt- < Lat. populus, the people. See POPULAR.] op•u•la•tion (ρŏp'yɔ-lā'shan) n. 1.a. All of the people inhabiting a specified area. b. The total number of such people. 2. The total number of inhabitants constituting a particular race, class, or group in a specified area. 3. The act or process of furnishing with inhabitants. 4. Ecol. All the organisms that constitute a specific group or occur in a specified habitat. 5. Statistics. The set of individuals, items, or data from which a statistical sample is taken. a statistical sample is taken. population explosion n. The geometric expansion of a bio

logical population, esp. the unchecked growth in human population resulting from a decrease in infant mortality and an

increase in longevity.

pop u lism (pop/y-liz/am) n. 1.a. A political philosophy supporting the rights and power of the people in their struggle against the elite. b. The movement organized around this phiagainst the elite. b. The movement organized around this philosophy. 2. Populism. The philosophy of the Populist Party. pop+u-list p. 1. A supporter of the rights and power of the people. 2. Populist. A supporter of the Populist Party. — adj. 1. Of or characteristic of populism or its advocates. 2. Populist. Of or relating to the Populist Party. Populist Party n. A U.S. political party in the 1890's that advocated free silver and a graduated federal income tax. pop+u-lous (pöp+y-los) adj. Containing many people or inhabitants. [ME < Lat. populösus < populus, the people. See Populus.] — pop+u-lous-y adj. Rising to form a three-dimensional structure when a page is opened. — n. 1. A device or an illustration that pops up. 2. Baseball. See pop fly. por-bea-gle (pôr+bē-gsl) n. A mackeral shark (Lama nasus) of temperate Atlantic waters. [Cornish porbugel.] por-ce-lain (pôr+s-lin, pôr+, pôrs+lin, pôrs-) n. 1. A hard

of temperate Atlantic waters. [Cornish porbugel.]
or-ce-lain (pôr's-lin, pôr', pôrs'lin, pôr's-) n. 1. A hard
white translucent ceramic made by firing a pure clay and then
glazing it with fusible materials; china. 2. An object made of
porcelain, [Fr. porcelaine, cowry shell, porcelain < OFr. <
OItal. porcellana < fem. of porcellano, of a young sow (from
the shell's resemblance to a pig's back) < porcella, young
sow, dim. of porca, sow < Lat., fem. of porcus, pig. See
porko-*.] — por'ce-la'ne-ous (-la'nê-os) adj...

**Porcelain anguel u. A class coring fired on metal

porcelain enamel n. A glass coating fired on metal. porcelain flower n. See hoya.

porceiain Hower n. see noya.

porch (pôrch, pôrch) n. 1. A covered platform, usu. having a
separate roof, at an entrance to a building. 2. An open or
enclosed gallery or room attached to the outside of a building;
a veranda. 3. Obsolete. A portico or covered walk. [ME
porche < OFr. < Lat. porticus, portico < porta, gate. See

por · cine (pôr 'sīn') adj. Of or resembling swine or a pig. [ME por*cine (pôr*sin*) adj. Of or resembling swine or a pig. [ME < OFr. porcin < Lat. porcinus < porcus, pig. See porko*.] por*cu*-pine (pôr*ky-pin*) n. Any of various rodents of the Old World family Hystricidae or the New World family Erethizontidae, having long sharp erectile quills interspersed with coarse hair. [ME porke despine < OFr. porc espin : Lat. porcus, pig; see porko* + Lat. spina, thorn, spine.] porcupine fish n. Any of various tropical marine fishes of the family. Diodontidae having strong spines on the body.</p>

porcupine rish n. Any or various tropical marile listies of the family Diodontidae, having strong spines on the body.

Por-cu-pine River (pôr/kya-pīn/). A river rising in NW Yukon Terr., Canada, and flowing c. 721 km (448 mi) to the Yukon R. in NE AK.

ore¹ (pôr, pôr) intr.v. pored, por lng, pores. 1. To read or study carefully and attentively: pored over the ads. 2. To gaze intently. 3. To meditate deeply; ponder. [ME pouren.] pore² (pôr, pôr) n. 1. A minute opening in tissue, as in the skin

of an animal, serving as an outlet for perspiration, or in a plant leaf or stem, serving as a means of absorption and transpiration. Z. A space in rock, soil, or unconsolidated sediment that is not occupied by mineral matter and allows the passage or absorption of fluids: pores of a rock. [ME < OFr. < LLat. porus, passage < Gk. poros. See per-2*.]

pore fungus n. Any of various basidiomycetous fungi of the families Boletaceae and Polyporaceae, whose basidia line the

inside of tubes that lead to exterior pores.

por•gy (pôr gē) 1 bodied marine common species waters. 2. Any ation of Sp. and a kind of fish < Po•ri (pôr 'ē). A c of Helsinki; cha po•rif•er•an (pa phylum Porifers phylum name : neut. pl. of -fer. po-rif-er-ous (1 relating to the pork (pôrk, pōrk) 2. Slang. Gover are dispensed or constituents. [] porko-*.

pork barrel n. Si that yields jobs .tronage opporti pork belly n. A s pork er (pôr kər pork•ple (pôrk/j crown and a fle por · ky (pôr / kē, porn (pôrn) also — adj. Pornogra por · nog · ra · phy rial that somet 2. The presenta nographie < pc phos, writing at + graphein, to - por'no · gra graph'i · cal · ly po•ros•1•ty (pa-property of bein rous. 3. The rat to the volume of porôsitās < por po•rous (pôr / əs, mitting the pass stices. 3. Easily poros < Med.L. po'rous · ly a por phyr · l · a (pć phyrin metaboli ence of large as [NLat.: PORPHYI por phy rin (pôr organic compou protoplasm. [Gl por phy rit ic (
adj. 1. Containi
of fine texture.

· fishes and certa phyritic texture. porphuritës < t por•poise (pôr/) several gregario related genera o triangular dorsa as the dolphin. compound mean porko-*) + pei.
por • rect (pə-rčkt

por · phy · roid (pć

phyritic texture. por • phy • rop • slr

to rhodopsin, fo

tended, esp. fo p.part. of porri per1* + regere. por ridge (pôr'i) meal or another (influenced by porrum).] — po por•rin•ger (pôr

a handle. [ME, a a nancie. [ME, 3
 potage, soup.
 port¹ (pôrt, pôrt)
 for loading and
 terway with success
 2. A place along a harbor. 3. A

per-2*.)
port² (pôrt, pōrt)
aircraft facing fo

. 3. Of, Fit for, . 5. Ac i. Suited ginating)Fr. popeople

agains te of beafter.

-iz · es. present s. 1. To

. To live Lat. po PULAR. eople inı people. articular : process sms that habitat m which

of a bioan pop-/ and an

ilosophy struggle st Party. ghts and Populist or its ad-Party. that adrax.

ople. Scr iensional ra nasus)

le or in

. A hard and then made of ow (from a, young pig. Sec

having a open or building: alk. [ME gate, Sco

pig. [ME porko-1. ats of the mily Erc. Lat. por-

hes of the ody. NW Yuni) to the

o read or n the skin 1, or in a I sediment ne passagr

ngi of the

poregy (por ge) n., pl. porgy or gles. 1. Any of various deep-bodied marine food fishes of the family Sparidae, esp. the common species Pagrus pagrus of Mediterranean and Atlantic common species ragrus pagrus of Mediterranean and Atlantic waters. 2. Any of several fishes similar to the porgy. [Alteration of Sp. and Port. pargo, both alteration of Lat. phager, spini (pôr'ē). A city of SW Finland on the Gulf of Bothnia NW of Helsinki; chartered 1564. Pop. 78,933.

portifeer an (portifar-on) n. Any of various members of the

phylum Porifera constituting the sponges. [< NLat. Porifera, phylum name: Lat. porus, passage; see rore? + Lat. -fera, incut. pl. of -fer, -fer.] - po-riff'er-al, po-riff'er-an adj. po-riff'er-ous (p-riff'er-s) adj. 1. Having pores. 2. Of or

por the result (pa-th) stass and the relating potes. At the relating to the poriferans.

pork (pork, pork) n. 1. The flesh of a pig or hog used as food.

23 Slang. Government funds, appointments, or benefits that lare dispensed or enacted by politicians to gain favor with their constituents. [ME < OFr. porc, pig < Lat. porcus. See

pork.barrel n. Slang, A government project or appropriation that yields jobs or other benefits to a specific locale and patriologic opportunities to its political representative.

pork belly n. A side of fresh pork.

pork er (pôr/kar, pôr/) n. A fattened young pig.

pork-ple (pôr/kpr/, pôrk/) n. A man's hat having a low flat

¿crown and a flexible brim.

por ky (pôr ke, pōr) n., pl. -kies. Informal. A porcupine.
por (pôr n) also por no (pôr nō) Slang. — n. Pornography.

adj. Pornographic. — porn'y adj.
por nog ra phy (pôr-nog ra-fē) n. 1. Sexually explicit material that sometimes equates sex with power and violence. 2. The presentation or production of this material. [Fr. pornographie < pornographe, pornographer < LGk. pornographos, writing about prostitutes : porne, prostitute; see per-50 E graphein, to write; see -GRAPHY.] — por•nog'ra•pher n. -por'no•graph/ic (pôr'nə-grăf'ĭk) adj. — por'no• graph'i cal ly adv.

graph/1•ca1•ty adv. og. 00; 00s-1•ty (pp-ros/1-tē, pô-) n., pl. -tles. 1. The state or property of being porous. 2. A structure or part that is porous. 3. The ratio of the volume of all the pores in a material cothe volume of the whole. [ME porosite < OFr. < Med.Lat.

Tporositās < porosus, porous. See porous.]
porrous (por s, por -) adj. 1. Full of or having pores. 2. Adpor rous (por '9s, por ') ad. 1. Full of or having pores. 2. Administration the passage of gas or liquid through pores or inter-stices. 3. Easily crossed or penetrated. [ME < OFr. poreux, por os. + Med. Lat. por osus < Lat. porus, passage. See rore?.]
por 'poyrous 'y adv. — po' rous ness n.
por phyria (por fir 'e-) n. Any of several disorders of por-phyrin metabolism, usu. hereditary, characterized by the pres-

ence of large amounts of porphyrins in the blood and urine.

[Nlat.: Porphyrin(||x|) + -||x||.] - por-phyr/c adj.
por-phyr-lin (por/f-rin) n. Any of various nitrogen-containing
porganic compounds, derived from pyrrole and occurring in

protoplasm. [Gk. porphura, purple; see PURPLE + -IN.]
porphy-rit-ic (por'fa-rit'ik) also por-phy-rit-i-cal (-i-kal)
#ādi, 1. Containing relatively large isolated crystals in a mass
#of-fine texture. 2. Of or containing porphyry.
porphy-rold (por'fa-roid') n. Metamorphic rock having por-

phyritic texture.

phyritic texture.

por ply 'rop 'sln (pôr' fə-röp' sin) n. A purple pigment similar to rhodopsin, found in the rods of the retinas of freshwater in the first por ply 'rop 'sin', n. pl. -ries. Igneous rock having por ply 'roy (pôr' fə-rè) n., pl. -ries. Igneous rock having por phyritic texture. [ME porphiri, porfurie < OFr. porfire < Ital. porfiro < Med.Lat. porphyrium < Lat. porphyritës < Gk. porphura, purple (< its color). See urrel.] por polse (pôr' pos) n., pl. porpoise or -pois-es. 1. Any of several gregarious toothed whales, of the genus Phocaena and related genera of occanic waters, having a blunt snout and a triangular dorsal fin. 2. Any of several related mammals, such as the dolphin. [ME porpeis < OFr. (prob. transl. of a Gmc. compound meaning sea pig): pore, pig (< Lat. porcus; see

compound meaning sea pig): porc, pig (< Lat. porcus; see porke-*) + peis, fish (< Lat. piscis).]
por-rect (p--rekt', pô-) adj. Zool. Stretched out or forth; extended, esp. forward: porrect mandibles. [Lat. porrectus, pp.part. of porrigere, to stretch out : por., forward, out; see

per + regere, to direct, rule; see Direct.]
por ridge (pôr /i, pôr /) n. A soft food made by boiling oargmeal or another meal in water or milk. [Alteration of Pottage
(influenced by obsolete porray, vegetable soup, ult. < Lat.

[sportum].] - por'ridg-y adj.
por:rin*ger (pôr'sn-jer, pōrt'-) n. A shallow cup or bowl with
[a handle. [ME, alteration of potinger, potager < OFr. potager

<pre>

<pr

for loading and unloading ships. b. A city or town on a waterway with such facilities. c. The waterfront district of a city. £2. A place along a coast that gives ships and boats protection; £4. A place along a coast that gives ships and boats protection; £4. harbor. 3. A port of entry. [ME < OE < Lat. portus. See

port² (Pôrt, pôrt) *Naut. — n.* The left-hand side of a ship or saircraft facing forward. — adj. Of, relating to, or on the port

side. -tr. & intr.v. port-ed, port-ing, ports. To turn (a craft) or make a shift to the port side. [Prob. < port side <

port3 (pôrt, port) n. 1. Naut. a. A porthole. b. Archaic. A cover for a porthole. 2. An opening, as in a cylinder or valve face, for the passage of steam or fluid. 3. A hole in an armored vehicle or a fortified structure for viewing or for firing weapons. 4. Comp. Sci. a. An entrance to or exit for a data network. b. A connection point for a peripheral device. S. Scots. A gateway or portal, as to a town. [ME, gate, porthole < OFr. porte, gate < Lat. porta. See per-2e.]
port4 also Port (pôrt, pôrt) n. A rich sweet fortified wine. [Af-

port⁵ (pôrt, pôrt) tr.v. port•ed, port•ing, ports. To carry (a weapon) diagonally across the body, with the muzzle or blade near the left shoulder. — n. 1. The position of a weapon when ported. 2. The manner in which one carries oneself; bearing. [Fr. porter, to carry < OFr. < Lat. portāre. See per-2*.]

per-2*.]

Port. abbr. Portugal; Portuguese.

port able (pôr to-bal, pôr '-) adj. 1. Carried or moved with ease. 2. Obsolete. Bearable; endurable. — n. Something portable; such as a light typewriter. [ME < OFr. < LLat. portabilis < Lat. portare, to carry. See per-2*.] — port'a bil'isty, port'a ble ness n. — port'a bil adv.

port age (pôr tij, pôr '-, pôr-täzh') n. 1.a. The act or an instance of carrying, b. A charge for carrying. 2. Naut. a. The carrying of boats and supplies overland between two waterways or around an obstacle to navigation. b. A track or route used for such carrying. — tr. & intr.v. aged, ag. ing. ag. es. ways of around an obstacle to hardyaldon. O. A tack of route used for such carrying. — tr. & intr.v. aged. -ag.·lng. -ag.·eg. Naut. To transport or travel by portage. [ME < OFr. < porter, to carry < Lat. portāre. See per. -2.*] Por. +tage (pōr/fij, pōr/-). 1. A city of NW IN, a suburb of Gary on Lake Michigan. Pop. 29,060. Z. A city of SW MIS

Gary on Lake Michigan. Pop. 29,060. Z. A city of SW MI S of Kalamazoo. Pop. 41,042. por tal (pôr tl, pôr l) n. 1. A doorway, an entrance, or a gate, esp. a large and imposing one. Z. An entrance or a means of entrance. 3. The portal vein. -adj. 1. Of or relating to the portal vein or the portal system. Z. Of or relating to a point of entrance to an organ, esp. the transverse fissure of the liver, through which the blood vessels enter. [ME l OFr. l Med. through which the blood vessels enter. [ME < Orr. < Med. Lat. portale, city gate < neut. of portalis, of a gate < Lat. porta, gate. See per-2*. N., sense 3 and adj. < NLat. porta (hepatis), transverse fissure (of the liver) < Lat., gate.] Port Al*ber*ni (āl-būr*nē). A city of SW British Columbia, Canada, on SE-central Vancouver I. Pop. 19,892. portal system n. A system of blood vessels that begins and

ends in capillaries. •tal-to-por•tal (pôr/tl-tə-pôr/tl, pôr/tl-tə-pōr/tl) adj. Of

or based on the time a worker spends on the employer's property, calculated from arrival to departure.

portal vein n. A vein that conducts blood from the digestive

organs, spleen, pancreas, and gallbladder to the liver.
or•ta•men•to (pôr'tə-měn'tō, pōr'-) n., pl. -tl (-tē) or -tos.
Mus. A smooth uninterrupted glide in passing from one tone Mus. A smooth uninterrupted glide in passing from one tone to another, esp. with the voice or a bowed stringed instrument. [Ital. < portare, to carry < Lat. portāre. See per-2*.]

Port An•ge•les (ān/ip-lis). A city of NW WA S of Victoria, British Columbia, Canada. Pop. 17,710.

Port Ar•thur (ār/thər). A city of extreme SE TX on Sabine Lake near the LA border. Pop. 58,724.

por•ta•tive (pôr/ta-tiv, pôr/-) adj. 1. Portable. 2. Capable of or used in carrying. [ME portatif < OFr. < Lat. portāre, to carry. See per-2*.]

Port-au-Prince (nôrt/ā-prins/ pôrt/a-prins/). The

carry. See per-2*.]

Port-au-Prince (pôrt'ō-prǐns', pōrt'-, pôr'tō-prǎns'). The cap. of Haiti, in the SW part on an arm of the Caribbean; founded by French sugar planters in 1749. Pop. 684,284.

Port Ches-ter (chēs'tər). A village of SE NY on Long Island Sound near the CT border. Pop. 24,728.

Port Col·borne (köl/būrn'). A city of SE Ontario, Canada, on Lake Erie W of Buffalo NY. Pop. 19,225.

Port Co-quit·lam (kō-kwit'ləm). A city of SW British Columbia, Canada, on the Fraser R. E of Vancouver. Pop. 27,535.

Port-cul·lis (pôrt-kül'is, pôrt-) n. A grating of iron or wooden

bia, Canada, on the Fraser R. E of Vancouver. Pop. 27,533.

port*cul*lis (pôrt-kůl*is, pôrt-) n. A grating of iron or wooden
bars or slats, suspended in the gateway of a fortified place and
lowered to block passage. [ME port-colice < OFr. porte coleice, sliding gate: porte, gate (< Lat. porta; see per-2*) +
coleice, fem. of coleis, sliding (< Vlat. *cōlātīcius < Lat.
cōlātus, p.part. of cōlāre, to filter, strain < cōlum, sieve).]

Port du Sa*lut (pôrt' dɔ sā-lōo', pôrt', pôr' dū sā-lū') n. Var.
of Port Salut.

of Port Salut. Porte (port, port) n. The government of the Ottoman Empire. [Fr., short for la Sublime Porte, the High Gate < OFr. porte, gate. See PORT³.]

porte-co · chère or porte-co · chere (pôrt'kō-shâr', pōrt'-) n. 1. A carriage entrance leading through a building or wall into an enclosed courtyard. 2. An enclosure over a driveway at the

entrance of a building to provide shelter. [Fr. porte cochère: porte, door + cochère, for coaches.]

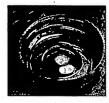
Port E-liz-a-beth (i-liz/a-bəth). A city of SE South Africa on an inlet of the Indian Ocean. Pop. 281,600. por • tend (pôr-těnd , pōr-) tr.v. -tend • ed, -tend • ing, -tends.

1065

porgy portend



porcupine fish Diodon hystrix



porringer c. 1730 silver porringer by Simeon Soumaine (1685 – 1750)



ă pat oi boy ā pay âr care ou **ou**t oo took ä father ão bãot pet ŭ cut he ûr **ur**ae pit th thin pie th this îr plei ŏ pot ō toe zh vision about. ô paw item

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/ (secondary), as in
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